

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

128954-3

MAR 15 2004

In Re Application Of: Guo et al.

Serial No.

10/733,062

Filing Date

12/11/2003

Examiner

Group Art Unit

Title: THERMOSET COMPOSITE COMPOSITION, METHOD, AND ARTICLE

Address to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
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Serial No.
10/733,062

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Group Art Unit

THERMOSET COMPOSITE COMPOSITION, METHOD, AND ARTICLE

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
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- ☐ Charge the amount of _____
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Signature of Person Mailing Correspondence

Rebecca L. Blake

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J. Michael Buchanan

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J. Michael Buchanan

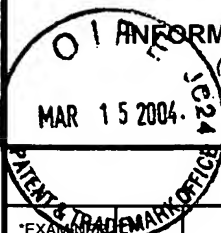
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Dated: March 11, 2004

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 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO. 128954-3		SERIAL NO. 10/733,062	
				Guo et al.			
				FILING 12/11/2003		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	6,593,391	7/15/2003	Teutsch et al.				
	2001/0053820 A1	12/20/2001	Yeager et al.				
	2002/0120047	8/29/2002	Border et al.				
	2002/0120048	8/29/2002	Border et al.				
	2002/0169256 A1	11/14/2002	Merfeld et al.				
	2002/0173597 A1	11/21/2002	Zarnoch et al.				
	2002/0177027 A1	11/28/2002	Yeager et al.				
	2003/0096123 A1	5/22/2003	Yeager				
	2003/0215588 A1	11/20/2003	Yeager et al.				
	3,375,228	3/26/1968	Holoch et al.				
	4,148,843	4/10/1979	Goossens				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	DE 31 17 514 A1	2.5.81	German			✓	
	DE 41 03 140 A1	2.2.91	German			✓	
	EP 0 261 574	13.11.91	European				✓
	WO 02/079301 A2	10.10.2002	PCT				✓
	WO 93/04117	04.03.93	PCT				✓
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Pugh et al. "Group Transfer Polymerization of Some Unusual Acrylates and Methacrylates", Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) (1985), 26 (2), 303-5						
	S. J. Monte et al., "A New Generation of Age and Water Resistant Reinforced Plastics", ANTEC, 1979, Section 16-E, pages 1-10						
EXAMINER				DATE CONSIDERED			

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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,528,235	7/9/1985	Sacks et al.			
		4,562,243	12/31/1985	Percec			
		4,618,528	10/21/1986	Sacks et al.			
		4,634,742	1/6/1987	Percec			
		4,663,402	5/5/1987	Percec et al.			
		4,665,137	5/12/1987	Percec			
		4,677,185	6/30/1987	Heitz et al.			
		4,701,514	10/20/1987	Percec			
		4,739,007	4/19/1988	Okada et al.			
		4,760,118	7/26/1988	White et al.			
		4,806,601	2/21/1989	Percec			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		WO 93/11190	10.06.93	PCT				✓
		WO 95/14733	01.06.95	PCT				✓

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			L. B. Cohen, "Zircoaluminates Strengthen Premium Ranges of Chemical Coupling Agents", <i>Plastics Engineering</i> , Vol. 39, No. 11, pages 29-32 (1983)
			S. J. Monte et al., "Coupling Composites with Titanate During Extrusion Processing", <i>Modern Plastics</i> , May 1984, pages 74-78

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,810,734	3/7/1989	Kawasumi et al.			
		4,874,728	10/17/1989	Elliott et al.			
		4,889,885	12/26/1989	Usuki et al.			
		4,923,932	5/8/1990	Katayose et al.			
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		5,091,480	2/25/1992	Percec			
		5,171,761	12/15/1992	Penco et al.			
		5,218,030	6/8/1993	Katayose et al.			
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		5,304,600	4/19/1994	Nelissen et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		"Plastic Additives Handbook, 4th Edition" R. Gachter and H. Muller (eds.), P. P. Klemchuck (assoc. ed) Hansen Publishers, New York 1993, pages 914-935					
		Chem. Mater. 1996, 8, 1584-1587, Shi et al., "Interfacial Effects on the Reinforcement Properties of Polymer-Organoclay Nanocomposites"					
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,310,820	5/10/1994	Nelissen et al.			
		5,338,796	8/16/1994	Vianello et al.			
		5,385,776	1/31/1995	Maxfield			
		5,407,972	4/18/1995	Smith et al.			
		5,552,469	9/3/1996	Beall et al.			
		5,578,672	11/26/1996	Beall et al.			
		5,698,624	12/16/1997	Beall et al.			
		5,760,121	6/2/1998	Beall et al.			
		5,834,565	11/10/1998	Tracy et al.			
		5,877,248	3/2/1999	Beall et al.			
		5,965,663	10/12/1999	Hayase			

FOREIGN PATENT DOCUMENTS								
*	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			Chem. Mater. 1994, 6, 468-474, Wang et al., "Clay-Polymer Nanocomposites Formed from Acidic Derivatives of Montmorillonite and an Epoxy Resin"
			Chem. Mater. 1994, 6, 1719-1725, Messersmith et al., "Synthesis and Characterization of Layered Silicate-Epoxy Nanocomposites"

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				Guo et al.			
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U.S. PATENT DOCUMENTS							
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		6,051,662	4/18/2000	Tracy et al.			
		6,228,903	5/8/2001	Beall et al.			
		6,251,308	6/26/2001	Butler			
		6,287,992	9/11/2001	Polansky et al.			
		6,306,963	10/23/2001	Lane et al.			
		6,352,782	3/5/2002	Yeager et al.			
		6,384,176	5/7/2002	Braat et al.			
		6,469,124	10/22/2002	Braat et al.			
		H 521	9/6/1988	Fan			
		6,521,703	2/18/2003	Zarnoch et al.			
		6,617,398 B2	9/9/2003	Yeager et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
			Chem. Mater. 1995, 7, 2144-2150, Lan et al., "Mechanism of Clay Tactoid Exfoliation in Epoxy-Clay Nanocomposites"				
			Reichle et al., "Catalytic Reactions by Thermally Activated, Synthetic, Anionic Clay Materials", Journal of Catalysis 94, 547-557 (1985)				
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 128954-3		Application Number 10/733,062	
		Applicant(s) Guo et al.			
		Filing Date 12/11/2003		Group Art Unit	
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>				
	"Interfacial Properties of POSS-Nanofillers," J. Polidan et al., American Physical Society March 2002 Meeting, Session M33, Poster Session IV (http://www.eps.org/aps/meet/MAR02/baps/abs/S4735035.html)				
	Callaghan et al., "Interaction Energies for Blends of Poly(methyl methacrylate), Polystyrene, and Poly (α-methylstyrene) by the Critical Molecular Weight Method", Macromolecules 1993, 26, 2439-2450				
	Isaac C. Sanchez, "Relationships Between Polymer Interaction Parameters", Polymer, 1989, Vol 30, March, 471-475				
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	Applicant(s) Guo et al.	
	Filing Date 12/11/2003	Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,627,704 B2	9/30/2003	Yeager et al.			
		6,627,708	9/30/2003	Braat et al.			
		6,645,569	11/11/2003	Cramer et al.			
		6,646,302	11/11/2003	Kan et al.			
		6,652,967	11/25/2003	Yadav et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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